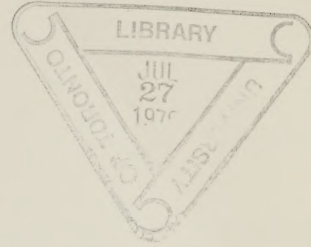
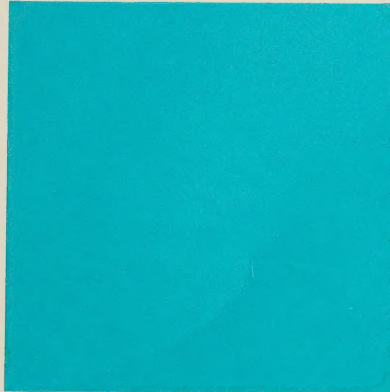
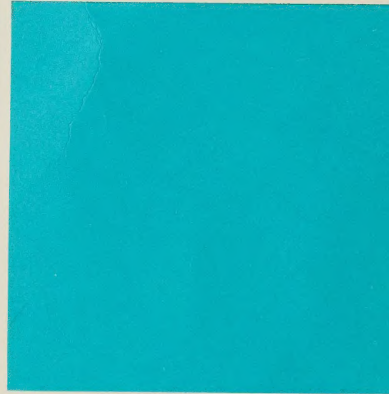
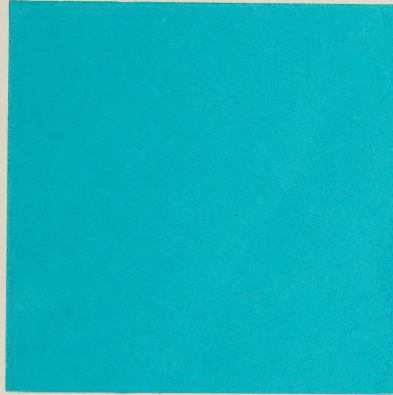


Canada's trade in selected manufactured agricultural production inputs, 1945-77



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CANADA'S TRADE IN SELECTED MANUFACTURED AGRICULTURAL PRODUCTION INPUTS, 1945-77

Edward Suen

Edited and published by
Information Services
Agriculture Canada
Ottawa K1A 0C5

Publication No. 1979/1
February 1979

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Policy, Planning and Economics Branch




Agriculture
Canada

ABSTRACT

The value of Canadian exports in the selected manufactured production inputs was \$1,334 million in 1977 while that of imports was \$1,480 million, resulting in a trade deficit of \$146 million. The deficit was an improvement from that of 1976, \$271 million, and from 1975 when it reached \$339 million.

The United States had an 87-percent share in both exports and imports of the selected inputs. Fertilizers, mainly potash, were the most important export, followed by farm machinery and parts. On the import side, farm machinery and parts were the most significant, followed by agricultural chemicals and fertilizers, mainly phosphate rock. Twine and tires for farm tractors and implements made up the rest of the selected inputs.



Abstract

The value of Canadian exports in the selected manufacturing production
reports was \$1,326 million in 1977 with a deficit of \$1,480 million,
resulting in a trade deficit of \$146 million. The deficit was an
improvement from that of 1976, \$277 million, and from 1975 when it reached
\$253 million.

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FOREWORD

This report is the second of its kind to be published by the Policy, Planning and Economics Branch of Agriculture Canada and it summarizes trade statistics for a group of selected manufactured farm production inputs. The inputs included are farm machinery, fertilizers, fertilizer materials, agricultural chemicals, twine, and tires for farm tractors and implements.

In addition to statistics for the calendar years 1974 to 1977, averages for the 1969-73 period and a historical summary by years since 1945 are given. The data are presented in terms of value (Canadian dollars) and, where possible, of quantity, by commodity subclass, and by country of origin and of destination. Recent-year data are also provided for fertilizers, fertilizer materials, and agricultural chemicals, by sales year.

The statistics are the same as those published by Statistics Canada in the Trade of Canada reports: Exports by Commodities (monthly), Catalogue No. 65-004, and Imports by Commodities (monthly), Catalogue No. 65-007. Exports are valued f.o.b. at point of shipment. They include so-called re-exports, that is, imported items exported in almost unchanged form. Imports, including the "re-exports," also are valued f.o.b. at point of shipment. But goods of foreign origin in transit only have been excluded, if possible.

Another Policy, Planning and Economics Branch report, Canada's Trade in Agricultural Products, contains trade statistics on unmanufactured farm production inputs. These encompass animal feeds including oilseed products; breeding livestock (cattle); feeder cattle; chicks and poults; hatching eggs; grain, grass, and forage seeds for sowing (excluding seed corn); seed potatoes; nursery stocks; and honey bees.

Users are invited to comment. They should note that in those tables where data are reported by country of origin or destination, totals include the values for any countries not identified separately. Also, data for 1977 are preliminary and subject to revision.

Purchased Input Markets
Production Analysis Division
Agricultural Development Directorate
Policy, Planning and Economics Branch
Agriculture Canada, Ottawa

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CANADA'S TRADE IN SELECTED MANUFACTURED AGRICULTURAL PRODUCTION INPUTS

Summary

In 1977, Canada exported \$1,334 million worth of selected agricultural production inputs,¹ 14 percent more than the 1976 value of \$1,170 million. The 1976 exports were 12.2 percent higher than the \$1,043 million of 1975.

The value of imports of these inputs increased a mere 2.7 percent to \$1,480 million in 1977 from \$1,442 million in 1976. Between 1976 and 1975, this value had increased only 4.4 percent compared to the 1975 increase of 38.7 percent and the 1974 increase of 51.8 percent.

The decrease in the value of the Canadian dollar since late 1976 has had some effect on Canada's trade in farm inputs. Between 1974 and 1976, the average exchange rate for the U.S. dollar in terms of the Canadian dollar fell almost 10 percent (see Appendix B). This decrease helped to reduce Canada's input trade deficit in 1977 to \$146 million, a considerable improvement from the \$271 million deficit in 1976 and that of \$339 million in 1975 (see Table 33 on page 39).

Canada's major trading partner in these inputs is the United States, which accounted for 87 percent of both Canada's exports and imports in 1977. The respective percentages in 1976 were 85 and 87.

Input trade with the European Economic Community (EEC6) - Belgium, Luxembourg, France, West Germany, Italy, and the Netherlands - started with trade surpluses between 1945 and 1951, and with small deficits of between \$1 million and \$2 million from 1952 to 1958. In 1959, a year after the formation of EEC6, exports decreased to \$0.1 million resulting in a deficit of \$3.5 million. In 1976, exports of inputs increased to just under \$17 million but decreased 29 percent in 1977 to \$12 million. Imports of inputs, however, rose 23 percent to a new record of \$101 million in 1977 from the previous record of \$82 million in 1976.

Canada began two-way trade in inputs with Japan in 1962 and has shown a trade surplus ever since. Total exports of inputs to Japan in 1977 were valued at \$32.7 million while imports were \$14.5 million, leading to a trade surplus of \$18.2 million. The main export to Japan is fertilizer and the main import items, tractors and parts.

Canadian exports of inputs to the United Kingdom increased only slightly in 1977. The total export value increased 11.8 percent to \$8.5 million. This 1977 increase, however, is dwarfed by the 61.7-percent increase in 1976 and the 62.1-percent one in 1975. Also, imports of inputs from the United Kingdom rose only 0.2 percent in 1977, in contrast with the 26.5-percent decrease in 1976.

¹The inputs included in this trade summary are farm machinery, fertilizer, fertilizer materials, agricultural chemicals, twine, and tires for tractors and implements, which collectively will be referred to as "inputs" hereafter in this paper. See Appendix A for a detailed breakdown of the components included under each of these categories.

Exports

Fertilizer is the most important input that Canada exports. Its export value has almost consistently amounted to more than half of the total input export value since 1970.

In 1977, fertilizer exports increased 27 percent to a record high of \$730 million. The export value for 1976 was 21 percent higher than that of 1975. On a fertilizer sales year basis, i.e., July 1 to June 30, exports of fertilizers increased 24 percent in 1977-78 and 19 percent in 1976-77.

The main type of fertilizer exported is potassium chloride, or muriate of potash, which accounts for over half of Canada's fertilizer exports. The United States bought over 78 percent of all our exports of potassium chloride in 1977, compared with 82 percent in 1976. The EEC6 countries did not purchase any ammonium phosphate in 1977. This reversal resulted in an 82-percent decrease of Canadian fertilizer exports to the EEC6, a drop in value from \$10 million in 1976 to about \$2 million in 1977. The United Kingdom also cut back on its fertilizer buying from Canada: 63.8 percent in 1977. Brazil, however, boosted its purchases from \$11.8 in 1976 \$22.3 million in 1977.

The value of the second largest export input item, farm machinery and parts, reached \$589 million in 1977, an increase from \$569 million in 1976. This amount represents an increase of only 3.5 percent. The increase from 1975 to 1976 was about 5 percent. The recent increases are sharply lower than the 36- and 37-percent annual increases experienced in 1975 and 1974, respectively.

Since 1965, the United States has purchased about 90 percent of the value of Canadian farm machinery exports. The recent figures were 91 percent in 1977, 90 in 1976, 87 in 1975 and 94 in 1974. Countries of the EEC6 increased their farm machinery purchases from Canada 64 percent in 1977, while South Africa, Mexico, and Iran decreased theirs 49, 53, and 95 percent, respectively.

Canadian exports of agricultural chemicals (insecticides and rodenticides) decreased 29 percent in 1977, totaling only \$10.5 million. The United States decreased its purchases 23, Australia 78, and Ecuador 58 percent.

Exports of twine increased 46 percent in 1977 to \$2.2 million after a drop of 36 percent in 1976. Twine, however, accounted for only 0.2 percent of the value of Canadian farm input exports in 1977.

Exports of tires for tractors and implements decreased 74 percent in 1977 to \$2.1 million after an increase in 1976 of over 148 percent from 1975. The changes were mainly due to the rise and fall of tire purchases by the United States.

In summary, the United States is Canada's main buyer of farm inputs. The share of Canada's exports of inputs to the United States has ranged from 58 percent in 1945 to 92 percent in 1960. In 1977, 87 percent of Canada's input exports went to the United States, 2.5 percent to Japan, about 1 percent to the EEC6 and 0.6 percent to the United Kingdom. More than one hundred other countries purchased farm inputs from Canada in 1977.

Imports

Canadian imports of farm inputs have increased from \$324 million in 1970 to almost \$1.5 billion in 1977. Between 1970 and 1977, the United States shipped from 80 to 87 percent of Canada's farm input imports. U.S. sales of inputs to Canada in 1977 were almost \$1.3 billion, of which farm machinery accounts for over \$1 billion, that is, 80 percent of the total. This level represents a slight drop of 1.2 percent from 1976, principally due to decreased farm machinery imports.

Tractor imports, including new and used tractors, engines, cabs, and parts decreased 6.9 percent to \$644 million in 1977 but still constituted 44 percent of Canadian imports of all farm inputs. Imports of new tractors decreased 6.8 percent in 1977, that of used tractors 39 percent.

Fertilizer imports, traditionally the second most important input, increased by 9.8 percent in calendar year 1977 to \$123 million, and 26.3 percent to \$144 million for the fertilizer sales year 1977-78. In contrast to these increases are the decreases of 19 percent for the 1976 calendar year and 18 percent for the 1976-77 fertilizer sales year. Phosphate rock remains the most important fertilizer import, constituting 45 percent of all 1977 fertilizer and fertilizer material imports and 49 percent of those of 1976.

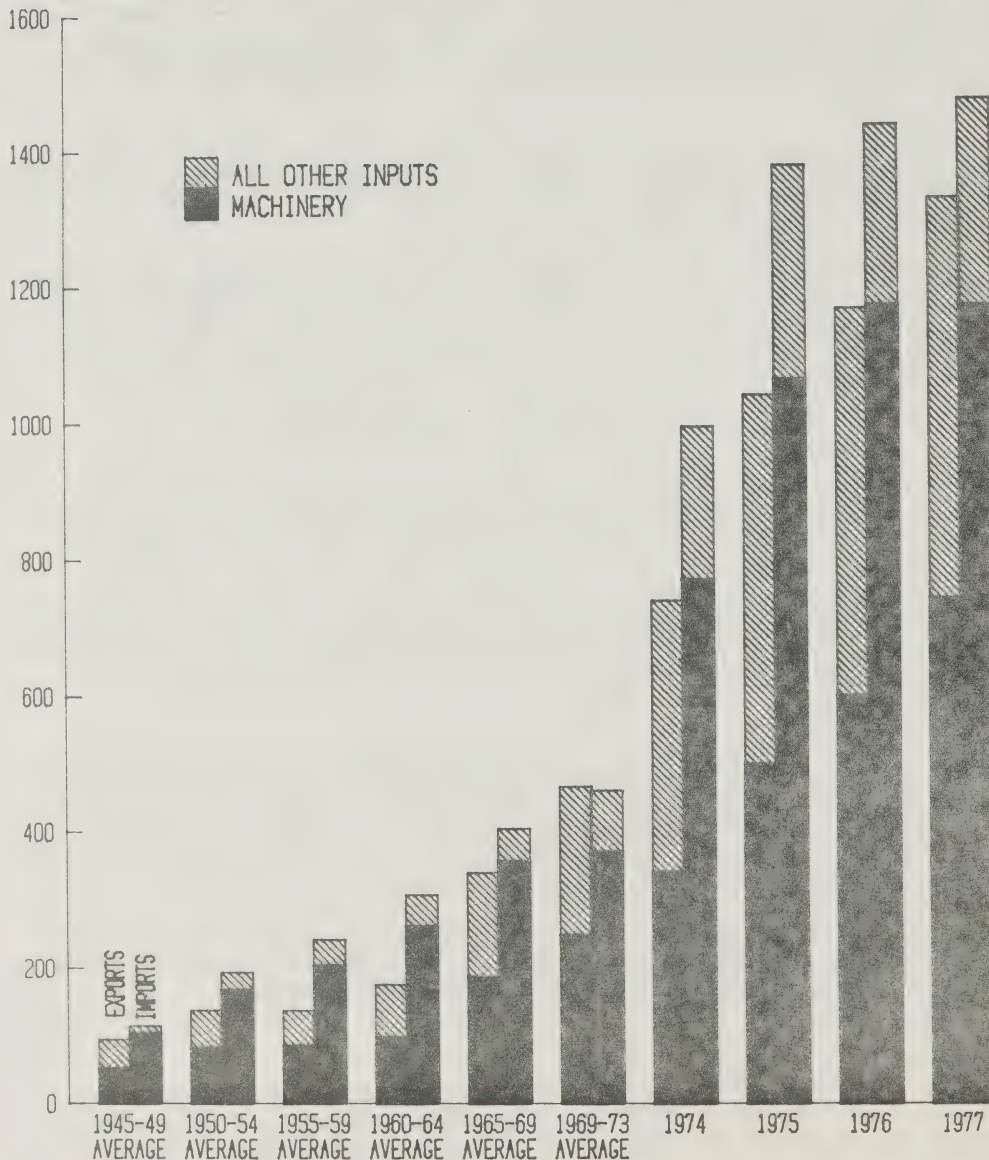
The value of agricultural chemical imports increased 16.1 percent to \$144 million in 1977. This increase compares with that in 1976 of 11.8 percent or \$124 million. On a chemicals sales year basis, i.e., October 1 to September 30, the increase in 1976-77 was 11.9 percent and 13.5 percent in 1975-76. Agricultural chemicals from the United States were 78 percent of the total import value of all agricultural chemicals (pesticides) in 1977, and 72 percent in 1976. In 1977, EEC6 shipments of agricultural chemicals to Canada were 12.8 percent of the total import value, while that of the United Kingdom was 7 percent.

Traditionally, twine imports have been about 2 percent of Canada's input imports. In 1977, these were valued at \$22.6 million, an increase of 40.3 percent from the \$16.1 million of 1976, but still far lower than the \$45 million of 1975. Canada's main sources of baler twine have traditionally been Portugal and Mexico, but the importance of Tanzania and Brazil have been increasing fast in recent years.

In summary, the United States remains Canada's largest supplier of farm input imports, providing between 84 and 87 percent during the period 1974 to 1977; the second largest, the EEC6, supplied between 6 and 7 percent.

FIGURE 1: CANADA'S TRADE IN SELECTED MANUFACTURED AGRICULTURAL
PRODUCTION INPUTS*, AVERAGE VALUES, 1945-49 TO 1969-73,
CALENDAR YEARS 1974 TO 1977

WILLIONS OF DOLLARS



* TOTAL OF FARM MACHINERY, FERTILIZER, FERTILIZER MATERIALS, AGRICULTURAL
CHEMICALS, TWINE, AND TIRES FOR TRACTORS AND IMPLEMENTS

FIGURE 2: CANADA - IMPORTS OF SELECTED MANUFACTURED AGRICULTURAL
PRODUCTION INPUTS, PERCENTAGE DISTRIBUTION BY COUNTRY OF ORIGIN,
1970 AND 1977

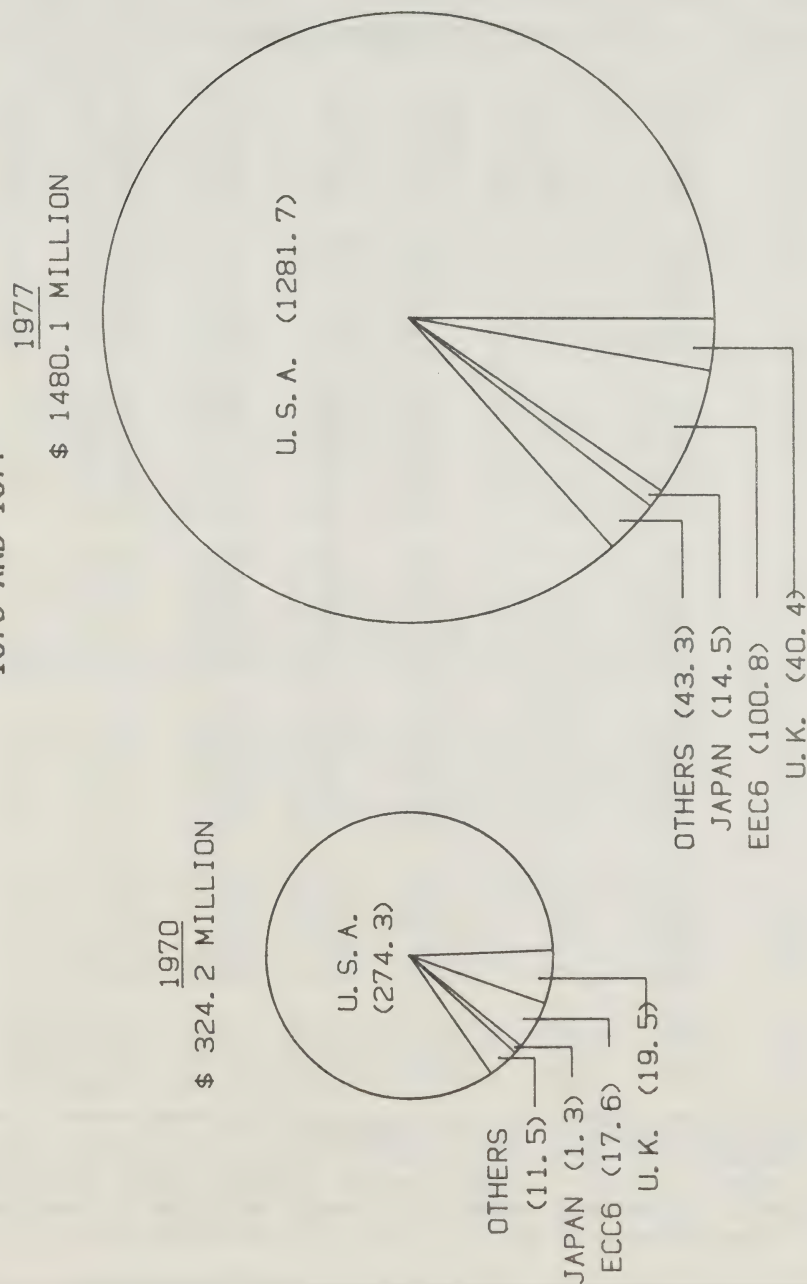


TABLE 1. EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO PRINCIPAL COUNTRIES, HISTORICAL SUMMARY, 1945-77^a

Calendar Year	All Countries	U.S.	U.K.	EEC6 ^b	Japan	India	Oceania ^c	Mexico
- million dollars -								
1945	53.4	30.9	6.3	7.1		.6	1.1	-
1946	65.2	38.6	3.4	5.9	1.0	1.0	.3	.6
1947	85.9	53.5	4.7	6.3	.4	1.4	.8	.6
1948	125.7	89.3	3.8	3.6	.0	.5	.8	1.3
1949	141.6	105.2	4.1	5.1	-	1.4	.6	.7
1950	133.3	109.1	.9	2.8	.0	2.6	.4	.8
1951	151.9	126.5	.6	2.1	-	.5	.7	1.2
1952	154.6	131.0	.4	.7	.0	.3	.7	1.6
1953	123.7	106.8	.2	1.2	.0	.1	.4	1.0
1954	123.1	96.5	.2	1.6	.0	.4	.2	2.0
1955	135.3	111.9	.3	2.3	.0	.0	.6	2.4
1956	119.6	101.2	.3	1.3	.0	.0	.7	2.5
1957	120.7	98.6	.2	1.6	.0	1.7	.9	1.8
1958	145.8	131.8	.1	1.0	.0	.0	.8	1.0
1959	164.7	151.5	.1	.1	.3	1.0	.7	1.1
1960	141.	129.8	.2	.2	.0	2.4	1.5	.6
1961	144.3	129.5	.4	2.0	.0	.0	2.5	1.0
1962	158.0	145.1	1.6	1.4	.3	.0	1.2	1.0
1963	198.4	177.4	1.9	.5	6.5	-	1.7	.8
1964	233.4	201.0	2.6	.9	8.2	-	3.8	.8
1965	283.1	248.9	2.2	7.2	9.5	1.3	4.7	1.6
1966	335.2	292.7	1.7	2.0	12.0	1.5	6.9	2.0
1967	354.0	312.7	1.6	.9	10.4	5.5	5.3	1.7
1968	350.7	297.0	1.9	12.3	12.7	9.7	5.3	2.2
1969	375.9	319.4	1.5	13.4	12.9	7.3	4.3	2.6
1970	411.0	350.7	.9	7.1	14.3	12.3	4.0	1.3
1971	447.5	373.3	1.4	8.1	15.7	15.4	5.6	1.9
1972	497.3	423.4	1.9	8.9	15.3	12.9	4.6	2.2
1973	601.2	523.5	1.9	15.5	16.5	9.7	8.5	1.5
1974	840.5	733.1	2.9	11.1	19.1	10.1	9.7	2.2
1975	1,042.8	890.8	4.7	15.1	18.0	4.6	19.9	8.7
1976	1,170.3	997.9	7.6	16.7	31.2	8.8	17.3	7.2
1977	1,334.0	1,155.7	8.5	11.7	32.7	11.2	21.3	3.3

^a"0" indicates exports of less than \$100,000.

"-" indicates the absence of exports.

^bIn this report, the EEC6 includes only West Germany, France, Italy, the Netherlands, Belgium and Luxembourg. Although the United Kingdom, Denmark, and Ireland became members of the EEC in 1972, they are shown separately in this report.

^cOceania includes Australia, New Zealand, and their dependencies.

TABLE 2 - IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM PRINCIPAL COUNTRIES, HISTORICAL SUMMARY, 1945-77^a

Calendar Year	All Countries	U.S.	U.K.	EEC6	Japan	Sweden	Switzerland	Mexico
- million dollars -								
1945	54.3	53.7	.1	.0	-	.2	.0	-
1946	72.8	71.7	.2	.2	-	.3	.0	-
1947	112.3	109.6	.3	1.8	.0	.4	.1	.0
1948	146.6	142.5	1.9	1.7	.0	.3	.0	0
1949	186.0	179.6	3.6	1.8	.0	.3	.1	.0
1950	171.0	159.7	8.8	2.1	-	.2	.0	.0
1951	205.9	196.9	7.1	1.4	.0	.4	.0	.0
1952	208.9	199.6	6.7	1.8	.0	.4	.0	.0
1953	221.8	212.7	5.6	2.4	.0	.5	.0	.0
1954	158.6	150.0	5.3	2.0	.0	.5	.0	.1
1955	194.9	186.6	4.2	2.7	.0	.5	.0	.3
1956	250.3	241.0	4.2	2.8	.0	.6	.0	.5
1957	230.8	217.5	7.5	3.8	.1	.5	.1	.3
1958	226.8	213.6	7.7	3.4	.1	.6	.0	.1
1959	304.7	280.4	17.2	3.6	.3	.9	.3	.1
1960	263.6	237.9	16.0	5.3	.3	1.0	.2	.2
1961	273.9	242.1	20.4	6.1	.2	.9	.3	.3
1962	292.8	258.2	21.0	8.1	.3	1.2	.4	.1
1963	361.1	322.9	21.8	9.9	.2	1.1	.8	.6
1964	344.3	309.8	15.0	10.5	.1	.6	1.5	1.0
1965	359.2	323.9	17.5	8.8	.1	.6	2.0	.7
1966	426.0	380.4	19.1	16.5	.1	.3	2.0	1.0
1967	439.8	385.1	23.3	18.6	.2	.8	2.5	1.1
1968	401.0	345.1	22.1	17.2	.5	4.7	3.4	1.0
1969	396.3	335.3	25.4	14.2	1.4	1.2	9.1	.7
1970	324.2	274.3	19.5	17.6	1.3	1.6	2.4	.6
1971	408.6	330.1	23.2	24.8	2.6	3.0	5.9	1.4
1972	519.3	411.8	28.2	29.6	3.7	5.1	3.8	2.7
1973	655.6	562.5	30.4	37.3	3.6	3.0	3.9	4.5
1974	995.9	830.3	36.6	62.0	8.7	3.9	3.3	10.3
1975	1,381.2	1,155.3	54.8	101.6	13.3	10.9	2.8	1.0
1976	1,441.5	1,259.2	40.3	81.5	14.4	5.3	1.1	3.0
1977	1,480.1	1,281.1	40.4	100.8	14.5	5.0	3.2	5.0

^a ".0" indicates imports less than \$100,000.
 "- " indicates the absence of imports.

TABLE 3. TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO ALL COUNTRIES, BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	217,875	398,467	542,113	568,758	588,894
Agricultural Chemicals	n.a. ^a	6,656	16,374	14,768	10,538
Fertilizers and Materials	245,022	431,713	478,276	577,234	730,319
All Twine	1,898	2,536	2,362	1,506	2,205
Tractor and Implement Tires	1,780	1,137	3,751	8,059	2,077
Total	466,575	840,509	1,042,876	1,170,325	1,334,033

^an.a. = not available.

TABLE 4. TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM ALL COUNTRIES BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	371,033	771,877	1,066,399	1,175,795	1,175,521
Agricultural Chemicals	36,888	79,665	110,703	123,808	143,812
Fertilizers and Materials	36,876	72,775	138,810	112,152	123,067
All Twine	11,144	55,061	45,014	16,106	22,565
Tractor and Implement Tires	4,857	16,555	20,241	13,608	15,157
Total	460,798	995,933	1,381,167	1,441,469	1,480,122

TABLE 5. TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO THE UNITED STATES BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	206,053	374,613	474,006	511,058	534,721
Agricultural Chemicals	n.a. ^a	3,817	10,571	8,027	6,178
Fertilizers and Materials	188,700	351,389	401,275	469,722	611,490
All Twine	1,698	2,244	1,440	1,063	1,708
Tractor and Implement Tires	1,643	1,039	3,602	7,991	1,579
Total	398,094	733,102	890,894	997,861	1,155,676

^an.a. = not available.

TABLE 6. TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM THE UNITED STATES BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	318,979	675,262	922,173	1,042,577	1,030,716
Agricultural Chemicals	25,270	58,881	74,084	89,051	111,607
Fertilizers and Materials	31,213	70,293	130,822	109,359	119,079
All Twine	2,441	9,828	8,693	4,843	4,885
Tractor and Implement Tires	4,700	16,129	19,523	13,347	14,850
Total	382,603	830,393	1,155,295	1,259,177	1,281,137

TABLE 7. TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO THE UNITED KINGDOM BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	1,186	2,580	3,629	6,471	7,890
Agricultural Chemicals	n.a. ^a	109	382	74	231
Fertilizers and Materials	318	218	622	867	314
All Twine	14	40	12	147	74
Tractor and Implement Tires	1	-	64	3	-
Total	1,519	2,947	4,709	7,562	8,509

^an.a. = not available.

TABLE 8. TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM THE UNITED KINGDOM BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	21,925	28,387	42,136	31,454	30,192
Agricultural Chemicals	2,582	5,845	10,689	8,012	9,545
Fertilizers and Materials	130	234	244	156	234
All Twine	689	1,905	1,728	681	431
Tractor and Implement Tires	13	192	9	16	5
Total	25,339	36,563	54,806	40,319	40,407

TABLE 9. TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO THE EUROPEAN ECONOMIC COMMUNITY, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	1,423	4,555	4,729	4,892	8,040
Agricultural Chemicals	n.a. ^a	870	2,056	1,854	1,614
Fertilizers and Materials	9,124	5,589	8,232	9,907	1,831
All Twine	21	59	74	63	156
Tractor and Implement Tires	34	0	46	2	15
Total	10,602	11,073	15,137	16,718	11,656

^an.a. = not available.

TABLE 10. TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM THE EUROPEAN ECONOMIC COMMUNITY, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	21,040	45,091	61,734	56,359	80,369
Agricultural Chemicals	2,942	10,259	21,455	23,826	18,432
Fertilizers and Materials	307	906	6,069	270	320
All Twine	354	5,611	11,952	941	1,459
Tractor and Implement Tires	85	89	393	103	187
Total	24,728	61,956	101,602	81,499	100,767

TABLE 11. TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO JAPAN,
AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	249	320	591	828	1,872
Agricultural Chemicals	n.a. ^a	18	-	-	58
Fertilizers and Materials	14,675	18,774	17,376	30,396	30,741
All Twine	4	13	27	13	6
Tractor and Implement Tires	1	-	-	-	-
Total	14,929	19,125	17,994	31,237	32,677

^an.a. = not available.

TABLE 12. TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM JAPAN,
AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	1,979	8,205	11,562	12,818	13,581
Agricultural Chemicals	323	182	242	275	342
Fertilizers and Materials	21	5	6	1,027	87
All Twine	208	270	1,469	313	467
Tractor and Implement Tires	12	4	20	3	27
Total	2,543	8,666	13,299	14,436	14,504

TABLE 13 - EXPORTS OF FARM MACHINERY BY COUNTRY OF DESTINATION, AVERAGE 1969-73
CALENDAR YEARS 1974-77^a

Country	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
United States	206,053	374,613	474,006	511,058	534,721
Australia	978	4,097	10,772	11,542	14,438
EEC6	1,423	4,555	4,729	4,892	8,040
South Africa	921	2,599	5,747	6,038	3,080
United Kingdom	1,186	2,580	3,629	6,471	7,890
Mexico	1,887	2,283	8,768	7,106	3,339
Sweden	243	1,234	708	516	515
Iran	67	175	1,123	3,718	195
New Zealand	188	656	1,142	733	1,522
Japan	249	320	591	828	1,872
Others	4,680	5,356	30,898	15,856	13,282
Total	217,875	398,467	542,113	568,758	588,894

^aDollar value includes that for parts.

TABLE 14. IMPORTS OF FARM MACHINERY BY COUNTRY OF ORIGIN, AVERAGE 1969-73 -
CALENDAR YEARS 1974-77^a

Country	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
United States	318,979	675,262	922,173	1,042,577	1,030,716
United Kingdom	21,925	28,387	42,136	31,454	30,192
EEC6	21,040	45,091	61,734	56,359	80,369
Denmark	1,140	3,885	3,786	2,974	3,312
Sweden	2,703	3,757	10,426	5,125	4,900
Japan	1,979	8,205	11,562	12,818	13,581
Australia	257	454	407	494	318
Norway	987	2,131	2,891	2,938	2,171
Romania	1,195	1,007	2,482	2,326	1,209
U.S.S.R.	379	2,620	6,352	13,916	4,067
Others	449	1,078	2,450	4,814	4,686
Total	371,033	771,877	1,066,399	1,175,795	1,175,521

^aDollar value includes that for parts.

TABLE 15. EXPORTS OF FARM MACHINERY, ALL COUNTRIES, BY CLASS AND VALUE,
AVERAGE 1969-73 - CALENDAR YEARS 1974-77^a

Farm Machinery	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Soil Preparation Machinery	34,740	66,279	91,923	94,461	90,111
Crop Protection Machinery	11,136	17,763	24,981	29,667	26,387
Hay Harvesting Machinery	120,372	189,184	256,120	264,318	277,167
(Combines)	(58,402)	(102,297)	(144,112)	(191,689)	(204,607)
Market Preparation Machinery	298	420	206	1,817	475
Dairy and Poultry Equipment	3,666	2,760	2,152	4,253	4,105
Other Agricultural Equipment	11,943	44,856	42,724	49,791	56,993
Tractors, Parts, and Accessories	35,720	77,205	124,007	124,451	133,656
Total	217,875	398,467	542,113	568,758	588,894

^aDollar value includes that for parts.

TABLE 16. IMPORTS OF FARM MACHINERY, ALL COUNTRIES, BY CLASS AND VALUE,
AVERAGE 1969-73 - CALENDAR YEARS 1974-77^a

Farm Machinery	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Soil Preparation Machinery	33,065	60,118	97,414	117,256	119,232
Crop Protection Machinery	8,699	17,779	23,732	28,144	30,230
Hay Harvesting Machinery	77,532	160,727	227,661	224,347	249,910
(Combines)	(20,929)	(29,064)	(53,772)	(95,930)	(129,232)
Market Preparation Machinery	12,305	27,032	24,741	21,247	26,149
Dairy and Poultry Equipment	12,961	27,428	26,670	25,644	29,278
Other Agricultural Equipment	28,061	61,742	61,222	67,592	76,488
Tractors, Engines, Cabs and Parts	197,410	417,051	604,959	691,565	644,234
(New Wheel Tractors)	(104,510)	(220,164)	(340,338)	(398,878)	(371,861)
(Used Tractors)	(6,002)	(18,297)	(28,555)	(29,424)	(17,869)
Total	371,033	771,877	1,066,399	1,175,795	1,175,521

^aDollar value includes that for parts.

TABLE 17. EXPORTS OF FERTILIZERS AND THEIR MATERIALS BY COUNTRY OF DESTINATION,
VALUE AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77^a

Country	Average 1969-73	1974	1975	1976	1977
United States					
\$000	188,700	351,389	401,275	469,722	611,490
000 tons	7,527	8,360	7,080	8,735	10,272
EEC6					
\$000	9,124	5,589	8,232	9,907	1,831
000 tons	250	200	62	99	34
Japan					
\$000	14,675	18,774	17,376	30,396	30,741
000 tons	630	876	645	602	679
India					
\$000	11,472	10,067	4,513	8,554	11,182
000 tons	350	486	114	172	239
Singapore					
\$000	1,057	2,520	1,398	6,114	7,274
000 tons	48	162	68	122	153
P.R. of China					
\$000	757	4,239	2,894	-	2,497
000 tons	18	216	142	-	125
Indonesia					
\$000	-	5,404	-	-	-
000 tons	-	17	-	-	-
South Korea					
\$000	2,945	5,503	10,544	11,691	10,444
000 tons	350	260	381	234	218
Oceania					
\$000	3,763	1,483	4,601	4,394	4,555
000 tons	188	73	157	80	99
Brazil					
\$000	2,238	10,168	6,212	11,812	22,317
000 tons	91	465	239	234	433
Taiwan					
\$000	427	2,570	1,597	8,402	2,501
000 tons	19	118	61	169	54
Total (All Countries)					
\$000	245,022	431,713	478,276	577,234	730,319
000 tons	9,726	11,534	9,251	10,673	12,576

^a "-" indicates the absence of imports.

TABLE 18. IMPORTS OF FERTILIZERS AND THEIR MATERIALS BY COUNTRY OF ORIGIN, VALUE AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77^a

Country	Average 1969-73	1974	1975	1976	1977
United States					
\$000	31,213	70,293	130,822	109,359	119,079
000 tons	3,234	4,006	3,960	3,135	3,581
Chile					
\$000	441	1,008	1,088	1,093	1,588
000 tons	9	9	8	9	9
EEC 6					
\$000	307	906	6,069	270	320
000 tons	13	6	45	2	3
Netherlands Antilles					
\$000	270	280	226	210	232
000 tons	6	4	3	4	4
United Kingdom					
\$000	130	234	244	156	234
000 tons	.5	.6	.3	.4	.5
Total (All Countries)					
\$000	36,876	72,775	138,810	112,152	123,067
000 tons	3,711	4,026	4,024	3,164	3,682

^aThese data include some imports of phosphate rock for uses other than as fertilizers.

TABLE 19. EXPORTS OF FERTILIZERS AND THEIR MATERIALS TO ALL COUNTRIES, BY CLASS,
VALUE AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Item ^a	Average 1969-73	1974	1975	1976	1977
Urea					
\$000	16,279	19,282	22,830	25,275	72,742
000 tons	255.6	161.6	133.5	201.1	595.0
Ammonia					
\$000	6,688	10,489	21,918	29,927	71,335
tons	128.2	105.6	127.9	249.4	632.5
Nitrogen Solutions n.e.s.					
\$000	9,265	9,634	11,406	7,861	7,171
000 tons	74.1	110.6	101.1	92.5	75.6
Ammonium Sulphate					
\$000	6,841	9,769	13,367	13,250	12,307
000 tons	199.1	144.4	140.2	201.9	197.1
Ammonium Nitrate					
\$000	15,515	17,824	18,470	18,366	27,556
000 tons	402.2	244.7	179.1	208.3	290.5
Nitrogenous Fertilizers n.e.s.					
\$000	39,905	70,264	84,221	64,940	61,963
000 tons	722.8	639.7	494.8	517.7	564.7
Potassium Chloride (Muriate of Potash)					
\$000	137,152	275,706	292,195	407,711	467,302
000 tons	7,682.1	9,969.5	7,983.0	9,125.6	10,142.1
Prepared Fertilizer Mixtures					
\$000	10,261	13,104	11,113	7,672	8,309
000 tons	200.9	106.2	71.1	54.0	58.6
Fertilizers n.e.s.					
\$000	3,116	5,641	2,756	2,232	1,634
000 tons	61.1	52.1	20.3	22.5	20.3
Total					
\$000	245,022	431,713	478,276	577,234	730,319
000 tons	9,726.1	11,534.3	9,250.9	10,673.0	12,576.4

^an.e.s. = not elsewhere specified.

TABLE 19a. EXPORTS OF FERTILIZERS AND THEIR MATERIALS TO ALL COUNTRIES, BY CLASS, VALUE AND QUANTITY, FERTILIZER SALES YEARS,^a 1974-75 TO 1977-78

Item ^b	1974-75	1975-76	1976-77	1977-78
Urea				
\$000	23,420	19,808	37,876	90,349
000 tons	152.9	133.1	207.2	739.1
Ammonia				
\$000	16,663	20,096	41,065	61,926
tons	103.6	132.3	250.0	447.2
Nitrogen Solutions n.e.s.				
\$000	11,835	8,681	7,828	7,140
000 tons	101.7	97.9	93.8	66.6
Ammonium Sulphate				
\$000	12,498	13,535	12,260	13,446
000 tons	130.9	183.4	202.6	190.4
Ammonium Nitrate				
\$000	19,690	18,229	23,737	31,988
000 tons	208.2	201.4	208.8	110.4
Nitrogenous Fertilizers n.e.s.				
\$000	86,678	69,951	63,620	62,552
000 tons	558.1	477.1	518.0	519.9
Potassium Chloride (Muriate of Potash)				
\$000	285,946	351,086	409,734	472,924
000 tons	9,010	7,939	9,125	10,304
Prepared Fertilizer Mixtures				
\$000	12,744	8,258	8,395	10,570
000 tons	80.7	54.1	54.4	80.8
Fertilizers n.e.s.				
\$000	3,734	2,195	2,315	2,161
000 tons	29.3	20.8	22.8	15.1
Total				
\$000	473,208	511,840	606,830	753,056
000 tons	10,327	9,249	10,683	12,473.5

^aFertilizer sales year is from July 1 to June 30.

^bn.e.s. = not elsewhere specified.

TABLE 20. IMPORTS OF FERTILIZERS AND THEIR MATERIALS FROM ALL COUNTRIES, BY CLASS, VALUE, AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Item ^a	Average 1969-73	1974	1975	1976	1977
Urea					
\$000	600	145	2,719	5,009	7,665
000 tons	10.2	.5	24.0	51.0	72.3
Sodium Nitrate					
\$000	685	1,863	2,088	2,491	3,224
000 tons	13.9	18.1	14.8	19.5	26.9
Nitrogen Solutions					
\$000	77	13	190	2,590	734
000 tons	2.2	.1	1.6	30.4	10.1
Ammonium Sulphate					
\$000	917	2,269	3,277	2,541	1,761
000 tons	40.2	40.0	43.5	43.8	20.8
Nitrogenous Fertilizers n.e.s.					
\$000	565	1,358	2,067	2,979	1,104
000 tons	7.7	10.0	13.6	24.0	13.7
Superphosphate 22% or less P ₂ O ₅					
\$000	30	566	194	126	50
000 tons	2.5	12.0	3.2	1.5	1
Superphosphate more than 22% P ₂ O ₅					
\$000	1,857	1,856	6,581	2,384	2,230
000 tons	46.6	23.1	47.2	28.9	22.7
Phosphatic Fertilizers n.e.s.					
\$000	4,571	10,236	15,361	19,297	24,920
000 tons	52.0	67.4	90.7	155.3	297.6
Phosphate Rock ^b					
\$000	19,513	40,368	85,170	54,472	55,469
000 tons	3,355.8	3,689.2	3,618.1	2,631.0	2,938.4
Potassium Chloride (Muriate of Potash)					
\$000	1,179	53	95	269	2,155
000 tons	45.0	.3	.4	4.7	46.8

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TABLE 20. IMPORTS OF FERTILIZERS AND THEIR MATERIALS FROM ALL COUNTRIES, BY CLASS, VALUE, AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77 (continued)

Item ^a	Average 1969-73	1974	1975	1976	1977
Potassium Sulphate					
\$000	980	1,396	960	776	1,232
000 tons	24.2	24.4	11.5	8.6	16.3
Potassic Fertilizers n.e.s.					
\$000	765	1,670	2,365	2,449	3,789
000 tons	34.1	56.9	49.0	49.7	73.5
Prepared Fertilizer Mixtures					
\$000	3,560	8,194	11,614	8,625	10,018
000 tons	39.3	55.4	60.0	48.2	63.4
Fertilizers n.e.s.					
\$000	1,527	2,788	6,129	8,144	8,716
000 tons	37.3	28.3	46.9	67.3	78.5
Total					
\$000	36,876	72,775	138,810	112,152	123,067
000 tons	3,711.0	4,026.0	4,024.4	3,163.9	3,682.0

^an.e.s. = not elsewhere specified.

^bThese data include some imports of phosphate rock for uses other than as fertilizers.

TABLE 20a. IMPORTS OF FERTILIZERS AND THEIR MATERIALS FROM ALL COUNTRIES, BY CLASS, VALUE,
AND QUANTITY, FERTILIZER SALES YEARS^a 1974-75 TO 1977-78

Item ^b	1974-75	1975-76	1976-77	1977-78
Urea				
\$000	561	4,001	7,924	10,903
000 tons	2.2	35.5	78.2	82.1
Sodium Nitrate				
\$000	1,926	2,443	2,910	2,829
000 tons	15.0	18.4	22.2	20.3
Nitrogen Solutions				
\$000	52	1,653	1,675	320
000 tons	0.4	18.9	19.1	3.4
Ammonium Sulphate				
\$000	2,642	3,171	2,613	1,491
000 tons	33.7	45.8	42.2	19.3
Nitrogenous Fertilizers n.e.s.				
\$000	2,301	3,285	1,272	2,911
000 tons	14.2	26.6	9.2	26.1
Superphosphate 22% or less P ₂ O ₅				
\$000	415	171	-	500
000 tons	6.7	1.8	-	4.1
Superphosphate more than 22% P ₂ O ₅				
\$000	2,973	5,979	1,965	3,536
000 tons	25.2	48.1	25.2	37.3
Phosphatic Fertilizers n.e.s.				
\$000	13,720	19,079	23,440	31,405
000 tons	75.4	129.7	201.2	208.4
Phosphate Rock ^c				
\$000	71,332	77,735	47,742	66,136
000 tons	3,970	3,369	2,200	2,960
Potassium Chloride (Muriate of Potash)				
\$000	42	119	904	968
000 tons	0.4	0.7	17.0	21.6

- continued -

TABLE 20a. IMPORTS OF FERTILIZERS AND THEIR MATERIALS FROM ALL COUNTRIES, BY CLASS,
VALUE AND QUANTITY, FERTILIZER SALES YEARS^a 1974-75 TO 1977-78 (conclusion)

Item ^b	1974-75	1975-76	1976-77	1977-78
Potassium Sulphate				
\$000	1,237	745	762	2,390
000 tons	17.9	8.1	8.3	21.1
Potassic Fertilizers n.e.s.				
\$000	1,667	3,330	2,494	4,821
000 tons	45.6	62.2	52.3	75.2
Prepared Fertilizer Mixtures				
\$000	11,931	9,267	10,364	12,293
000 tons	62.0	54.8	69.0	61.3
Fertilizers n.e.s.				
\$000	5,164	7,417	9,675	4,452
000 tons	39.0	60.7	87.0	36.1
Total				
\$000	115,964	138,363	113,772	144,955
000 tons	4,308	3,879	2,789	3,557

^aFertilizer sales year is from July 1 to June 30.

^bn.e.s. = not elsewhere specified.

^cThese data include some imports of phosphate rock for uses other than as fertilizers.

TABLE 21. EXPORTS OF AGRICULTURAL CHEMICALS^a BY COUNTRY OF DESTINATION,
VALUE, AND QUANTITY - CALENDAR YEARS 1974-77

Country	1974	1975	1976	1977
United States				
\$000	3,817	10,571	8,027	6,178
000 lb	3,574	8,361	5,247	4,700
EEC6				
\$000	870	2,056	1,854	1,614
000 lb	457	825	853	699
United Kingdom				
\$000	109	382	74	231
000 lb	86	140	52	99
Iran				
\$000	137	-	-	-
000 lb	56	-	-	-
Hong Kong				
\$000	107	25	28	-
000 lb	296	126	105	-
Australia				
\$000	160	253	590	132
000 lb	87	159	297	55
Colombia				
\$000	187	405	80	151
000 lb	196	399	17	33
Ecuador				
\$000	356	180	107	45
000 lb	51	26	26	9
Cuba				
\$000	208	1,125	1,205	-
000 lb	123	409	619	-
South Africa				
\$000	57	70	225	34
000 lb	146	65	163	19
Total (All Countries)				
\$000	6,656	16,374	14,768	10,538
000 lb	5,820	11,133	10,009	6,988

^aIncludes only insecticides and rodenticides that were not classified as exports until 1973; therefore, the 1969-73 average is not available.

TABLE 21a. EXPORTS OF AGRICULTURAL CHEMICALS BY COUNTRY OF DESTINATION, VALUE, AND QUANTITY, CHEMICAL SALES YEARS,^a 1974-75 TO 1976-77

Country	1974-75	1975-76	1976-77
United States			
\$000	9,865	8,905	6,941
000 lb	7,235	6,962	5,073
EEC6			
\$000	2,216	1,145	2,239
000 lb	975	343	1,178
United Kingdom			
\$000	235	62	232
000 lb	66	26	100
Australia			
\$000	182	612	272
000 lb	154	319	88
Colombia			
\$000	590	45	186
000 lb	593	10	40
Ecuador			
\$000	259	103	40
000 lb	35	25	8
South Africa			
\$000	6	67	254
000 lb	4	62	178
Total (All Countries)			
\$000	15,885	14,417	12,148
000 lb	10,473	10,820	8,188

^aChemical sales year is from October 1 to September 30.

TABLE 22. IMPORTS OF AGRICULTURAL CHEMICALS BY COUNTRY OF ORIGIN, VALUE, AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77^a

Country	Average 1969-73	1974	1975	1976	1977
United States					
\$000	25,270	58,881	74,084	89,051	111,607
000 lb	68,805	128,935	130,809	238,518	180,184
EEC6					
\$000	2,942	10,259	21,455	23,826	18,432
000 lb	9,926	17,727	16,473	22,196	11,282
United Kingdom					
\$000	2,582	5,845	10,689	8,012	9,545
000 lb	3,313	6,501	15,659	7,041	10,544
Denmark					
\$000	377	931	1,655	966	794
000 lb	1,004	1,059	1,339	833	839
Switzerland					
\$000	4,917	3,173	2,212	842	2,915
000 lb	3,701	2,315	1,221	486	1,941
Yugoslavia					
\$000	330	60	-	-	-
000 lb	260	44	-	-	-
Japan					
\$000	323	182	242	275	342
000 lb	670	466	290	232	158
Peru					
\$000	47	68	100	111	69
000 lb	134	123	159	174	84
Total (All Countries)					
\$000	36,888	79,665	110,703	123,808	143,812
000 lb	88,250	157,332	166,110	270,085	210,990

^a"-" indicates the absence of imports.

TABLE 23. IMPORTS OF AGRICULTURAL CHEMICALS FROM ALL COUNTRIES, BY ITEM AND VALUE, AVERAGE 1969-73 - CALENDAR YEARS 1974-77^a

Item ^b	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Aldrin, Technical	30	23	-	-	-
D.D.T., Technical	52	5	-	3	-
Derivatives of Hydrocarbon n.e.s.	5,483	10,503	10,361	17,880	15,513
2,4-Dichlorophenoxyacetic acid, Technical	234	513	487	796	2,099
Methyl Chlorophenoxyacetic Acid (MCP or MCPA)	1,106	2,406	4,091	3,084	2,067
Dithiocarbamates	320	714	7,877	12,363	23,019
D.D.T. Dusts, Solutions and Powders	22	67	150	-	19
Synthetic Organics n.e.s., Botanicals and Arsenicals, Formulated	218	516	570	632	642
Dithiocarbamates, Formulated	867	1,342	2,148	1,163	1,517
Mercurial Fungicides (except seed treatments)	196	143	125	120	249
Fungicides n.e.s. (except seed treatments)	1,712	2,598	3,364	2,589	3,616
Organic Mercurial Seed Treatments	28	35	-	12	33
Other Agricultural Dusts and Sprays (except herbicides)	705	466	1,045	495	877
Herbicides Based on Chlorate, Borate or 2,4,5-T	149	859	1,187	720	1,051
2,4-D Ester and Amine Dusts and Formulates	631	807	3,716	2,382	777
Herbicides n.e.s.	18,339	42,726	56,382	66,945	74,432
Insecticides and Rodenticides n.e.s.	6,796	15,942	19,200	14,624	17,901
Total	36,888	79,665	110,703	123,808	143,812

^a"-" indicates the absence of imports.

^bn.e.s. = not elsewhere specified.

TABLE 23a. IMPORTS OF AGRICULTURAL CHEMICALS FROM ALL COUNTRIES, BY ITEM AND VALUE, CHEMICAL SALES YEARS,^a 1974-75 TO 1976-77^b

Item ^c	1974-75	1975-76	1976-77
	- thousand dollars -		
Aldrin, Technical	21	-	-
D.D.T., Technical	-	3	-
Derivatives of Hydrocarbon n.e.s.	11,178	15,801	13,082
2,4-Dichlorophenoxyacetic Acid, Technical	642	731	944
Methyl Chlorophenoxyacetic Acid (MCP or MCPA)	3,312	4,338	3,353
Dithiocarbamates	6,202	12,151	15,482
D.D.T. Dusts, Solutions and Powders	180	-	19
Synthetic Organics n.e.s., Botanicals and Arsenicals, Formulated	560	362	745
Dithiocarbamates, Formulated	2,393	1,175	1,375
Mercurial Fungicides (except seed treatments)	125	90	252
Fungicides n.e.s. (except seed treatments)	3,553	2,700	3,733
Organic Mercurial Seed Treatments	-	12	17
Other Agricultural Dusts and Sprays (except herbicides)	936	585	851
Herbicides Based on Chlorate, Borate or 2,4,5-T	1,045	803	947
2,4-D Ester and Amine Dusts and Formulates	3,653	2,691	801
Herbicides n.e.s.	54,351	66,103	77,492
Insecticides and Rodenticides n.e.s.	19,743	14,984	17,959
Total	107,894	122,511	137,052

^aChemicals sales year is from October 1 to September 30.

^b"-" indicates the absence of imports.

^cn.e.s. = not elsewhere specified.

TABLE 24. IMPORTS OF AGRICULTURAL CHEMICALS FROM ALL COUNTRIES, BY ITEM AND QUANTITY AVERAGE 1969-73, CALENDAR YEARS 1974-77^a

Item ^b	Average 1969-73	1974	1975	1976	1977
- thousand pounds -					
Aldrin, Technical	25	16	-	-	-
D.D.T.	282	23	-	32,640	-
Derivatives of Hydrocarbon n.e.s.	44,695	69,674	49,313	112,487	78,781
2,4-Dichlorophenoxyacetic Acid, Technical	845	1,029	555	1,057	1,481
Methyl Chlorophenoxyacetic Acid (MCP or MCPA)	2,914	2,976	3,280	2,685	3,384
Dithiocarbamates	546	906	3,342	6,044	5,873
D.D.T. Dusts, Solutions and Powders	170	211	650	-	40
Synthetic Organics n.e.s., Botanicals and Arsenicals, Formulated	595	503	404	513	510
Dithiocarbamates, Formulated	3,207	2,118	2,382	1,269	1,427
Mercurial Fungicides (except seed treatments)	162	136	152	64	224
Fungicides n.e.s. (except seed treatments)	2,167	3,303	3,224	2,025	2,568
Organic Mercurial Seed Treatments	29	77	-	35	20
Other Agricultural Dusts and Sprays (except herbicides)	2,008	671	1,351	703	996
Herbicides Based on Chlorate, Borate or 2,4,5-T	1,033	1,807	2,784	1,294	1,814
2,4-D Ester and Amine Dusts and Formulates	987	1,454	6,034	4,309	846
Herbicides n.e.s.	19,211	47,491	65,779	83,632	90,618
Insecticides and Rodenticides n.e.s.	9,374	25,135	26,860	21,328	22,390
Total	88,250	157,530	166,110	270,085	210,990

^a"-" indicates the absence of imports.

^bn.e.s. = not elsewhere specified.

TABLE 24a. IMPORTS OF AGRICULTURAL CHEMICALS FROM ALL COUNTRIES, BY ITEM AND QUANTITY, CHEMICALS SALES YEARS,^a 1974-75 TO 1976-77^b

Item ^c	1974-75	1975-76	1976-77
- thousand pounds -			
Aldrin, Technical	15	-	-
D.D.T.	-	32	-
Derivatives of Hydrocarbon n.e.s.	56,955	95,868	69,883
2,4-Dichlorophenoxyacetic Acid, Technical	929	893	1,815
Methyl Chlorophenoxyacetic Acid (MCP or MCPA)	2,698	3,660	3,348
Dithiocarbamates	2,708	5,600	6,954
D.D.T. Dusts, Solutions and Powders	765	-	40
Synthetic Organics n.e.s., Botanicals and Arsenicals, Formulated	414	370	533
Dithiocarbamates, Formulated	2,708	1,277	1,194
Mercurial Fungicides (except seed treatments)	152	53	211
Fungicides n.e.s. (except seed treatments)	3,316	2,196	2,712
Organic Mercurial Seed Treatments	-	35	12
Other Agricultural Dusts and Sprays (except herbicides)	1,237	815	949
Herbicides Based on Chlorate, Borate or 2,4,5-T	2,460	1,593	1,509
2,4-D Ester and Amine Dusts and Formulates	5,822	5,096	855
Herbicides n.e.s.	62,784	81,245	97,519
Insecticides and Rodenticides n.e.s.	27,802	21,494	23,456
Total	170,765	220,227	210,998

^aChemicals sales year in from October 1 to September 30.

^b"-" indicates the absence of imports.

^cn.e.s. = not elsewhere specified.

TABLE 25. EXPORTS OF TWINE BY COUNTRY OF DESTINATION, VALUE AND QUANTITY,
AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Country	Average 1969-73	1974	1975	1976	1977
United States					
\$000	1,698	2,244	1,440	1,063	1,708
000 lb	9,681	4,655	2,278	2,252	2,933
EEC6					
\$000	21	59	74	63	156
000 lb	11	53	39	43	98
United Kingdom					
\$000	14	40	12	147	74
000 lb	35	32	12	69	137
Panama					
\$000	21	43	40	72	88
000 lb	13	40	26	34	39
South Africa					
\$000	15	22	4	3	10
000 lb	7	7	1	1	3
Japan					
\$000	4	13	27	13	6
000 lb	3	18	21	4	3
Oceania ^a					
\$000	14	70	33	23	15
000 lb	7	15	13	9	5
Total (All Countries)					
\$000	1,898	2,536	2,362	1,506	2,205
000 lb	9,813	4,881	3,486	2,531	3,584

^aOceania includes Australia, New Zealand, and their dependencies.

TABLE 26. IMPORTS OF TWINE BY COUNTRY OF ORIGIN, VALUE AND QUANTITY,
AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Country	Average 1969-73	1974	1975	1976	1977 ^a
United States					
\$000	2,441	9,828	8,693	4,843	4,885
000 lb	9,071	20,851	13,472	5,942	9,956
United Kingdom					
\$000	689	1,905	1,728	681	431
000 lb	1,481	4,401	2,785	1,500	336
EEC6					
\$000	354	5,611	11,952	941	1,459
000 lb	2,160	10,640	18,947	2,121	2,909
Brazil					
\$000	964	11,326	6,954	2,211	5,874
000 lb	8,740	23,542	12,638	9,988	24,424
Portugal					
\$000	1,263	796	1,611	418	419
000 lb	9,601	1,138	2,818	1,281	677
Mexico					
\$000	1,984	10,306	970	2,941	4,885
000 lb	16,193	23,155	1,724	15,306	21,970
Tanzania					
\$000	1,386	5,786	2,340	2,476	1,578
000 lb	12,387	16,774	4,840	15,236	8,191
Haiti					
\$000	682	3,496	1,626	45	-
000 lb	7,478	8,011	3,189	145	-
Total (All Countries)					
\$000	11,144	55,061	45,014	16,106	22,565
000 lb	71,588	108,512	60,413	55,579	70,865

^a"-" indicates the absence of imports.

TABLE 27. EXPORTS OF TWINE TO ALL COUNTRIES, VALUE AND QUANTITY, AVERAGE
1969-73 - CALENDAR YEARS 1974-77

Item	Average 1969-73	1974	1975	1976	1977
Baler Twine					
\$000	1,622	1,486	545	319	705
000 lb	8,590	3,767	1,075	1,214	2,302
Binder Twine					
\$000	136	20	10	5	4
000 lb	928	41	18	19	2
Cordage and Twine n.e.s. ^a					
\$000	140	1,030	1,277	1,168	1,496
000 lb	295	1,073	2,393	1,298	1,280
Total					
\$000	1,898	2,536	2,362	1,506	2,205
000 lb	9,813	4,881	3,486	2,531	3,584

^an.e.s. = not elsewhere specified.

TABLE 28. IMPORTS OF TWINE FROM ALL COUNTRIES, VALUE AND QUANTITY, AVERAGE
1969-73 - CALENDAR YEARS 1974-77

Item	Average 1969-73	1974	1975	1976	1977
Baler Twine					
\$000	8,163	49,628	40,846	10,155	15,917
000 lb	66,670	112,902	73,773	49,460	64,142
Binder Twine					
\$000	130	671	445	224	248
000 lb	1,191	1,716	876	1,566	1,416
Cordage and Twine n.e.s. ^a					
\$000	2,851	4,762	3,723	5,727	6,346
000 lb	3,727	1,663	1,633	4,553	5,307
Total					
\$000	11,144	55,061	45,014	16,106	22,565
000 lb	71,588	116,251	76,312	55,579	70,865

^an.e.s. not elsewhere specified.

TABLE 29 - EXPORTS OF TRACTOR AND IMPLEMENT TIRES BY COUNTRY OF DESTINATION,
VALUE AND UNITS, AVERAGE 1969-73 - CALENDAR YEARS 1974-77^a

Country	Average 1969-73 ^b	1974	1975	1976	1977
United States					
\$000	1,643	1,039	3,602	7,991	1,579
Units	16,371	9,830	30,650	99,466	15,299
EEC6					
\$000	34	0	46	2	15
Units	415	0	50	8	296
Belize (British Honduras)					
\$000	4	5	9	1	-
Units	155	230	70	24	-
Jamaica					
\$000	8	1	1	11	7
Units	71	25	5	80	82
Oceania ^c					
\$000	12	3	21	5	80
Units	82	20	95	22	452
Cuba					
\$000	n.a.	89	72	-	-
Units	n.a.	3,550	2,889	-	-
Total (All Countries)					
\$000	1,780	1,137	3,751	8,059	2,077
Units	17,908	13,655	33,759	100,193	17,371

^a"-" indicates the absence of imports.

^bn.a. not available.

^cOceania includes Australia, New Zealand, and their dependencies.

TABLE 30. IMPORTS OF TRACTOR AND IMPLEMENT TIRES BY COUNTRY OF ORIGIN,
VALUE, AND UNITS, AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Country	Average 1969-73 ^a	1974	1975 ^b	1976	1977
United States					
\$000	4,700	16,129	19,523	13,347	14,850
Units	132,845	330,128	308,619	220,067	293,260
EEC6					
\$000	85	89	393	103	187
Units	42,926	1,020	2,065	813	2,375
Japan					
\$000	12	4	20	3	27
Units	270	1,024	220	7	680
United Kingdom					
\$000	13	192	9	16	5
Units	201	389	116	324	38
Sweden					
\$000	40	83	108	29	28
Units	4,077	6,547	3,361	148	139
Taiwan					
\$000	n.a.	46	-	17	40
Units	n.a.	12,100	-	19	17,800
Total (All Countries)					
\$000	4,857	16,555	20,241	13,608	15,157
Units	174,683	351,208	314,381	222,880	317,470

^an.a. not available.

^b"-" indicates the absence of imports.

TABLE 31 - AVERAGE UNIT VALUES OF SELECTED AGRICULTURAL PRODUCTION INPUTS EXPORTED
TO ALL COUNTRIES, AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Inputs	Unit	Average 1969-73	1974	1975	1976	1977
Agricultural Chemicals	\$/cwt	n.a. ^a	146.31	147.54	147.54	151.45
Fertilizers and Materials	\$/ton	25.19	37.44	51.71	54.08	58.07
Baler Twine	\$/lb	.22	.41	.51	.26	.31
All Twine	\$/lb	.23	.52	.68	.60	.62
Tractor and Implement Tires	\$/tire	99.40	88.86	121.60	80.43	119.60
Wheel Tractors, New and Used	\$/machine	6,324	12,820	15,695	16,713	15,108
Combines (grain)	\$/machine	9,839	12,671	17,627	19,274	22,092
Cultivators	\$/machine	794	1,114	1,531	1,746	2,206
Mowers	\$/machine	493	525	792	771	870

^an.a. = not available.

TABLE 32. AVERAGE UNIT VALUES OF SELECTED AGRICULTURAL PRODUCTION INPUTS IMPORTED
FROM ALL COUNTRIES, AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Inputs	Unit	Average 1969-73	1974	1975	1976	1977
Agricultural Chemicals	\$/cwt	41.79	50.57	66.64	45.84	68.16
Fertilizers and Materials	\$/ton	9.37	18.00	34.49	35.44	33.42
Baler Twine	\$/lb	.12	.44	.55	.21	.25
All Twine	\$/lb	.16	.46	.58	.29	.32
Tractor and Implement Tires	\$/tire	27.81	47.00	63.67	61.06	47.74
Combines (grain)	\$/machine	7,535	10,459	13,366	15,167	18,421
Wheel Tractors, New	\$/machine	4,554	6,336	8,436	9,626	11,424
Used Tractors	\$/machine	4,784	8,161	10,510	12,244	10,426
Tractor Cabs	\$/machine	340	573	706	682	782

TABLE 33. NET TRADE BALANCE IN SELECTED AGRICULTURAL PRODUCTION INPUTS, CANADA,
AVERAGE 1969-73 - CALENDAR YEARS 1974-77^a

Production Input	Average 1969-73*	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery					
Imports	371,033	771,877	1,066,399	1,175,795	1,175,521
Exports	217,875	398,467	542,113	568,758	588,894
Net Trade Balance	(153,158)	(373,410)	(524,286)	(607,037)	(586,627)
Agricultural Chemicals					
Imports	36,888	79,665	110,703	123,808	143,812
Exports	n.a. ^b	6,656	16,374	14,768	10,538
Net Trade Balance	(36,888)	(73,009)	(94,329)	(109,040)	(133,274)
Fertilizers and Materials					
Imports	36,876	72,775	138,810	112,152	123,067
Exports	245,022	431,713	478,276	577,234	730,319
Net Trade Balance	208,146	358,938	339,466	465,082	607,252
All Twine					
Imports	11,144	55,061	45,014	16,106	22,565
Exports	1,898	2,536	2,362	1,506	2,205
Net Trade Balance	(9,246)	(52,525)	(42,652)	(14,600)	(20,360)
Tractor and Implement Tires					
Imports	4,857	16,555	20,241	13,608	15,157
Exports	1,780	1,137	3,751	8,059	2,077
Net Trade Balance	(3,077)	(15,418)	(16,490)	(5,549)	(13,080)
Total					
Imports	460,798	995,933	1,381,167	1,441,469	1,480,122
Exports	466,575	840,509	1,042,876	1,170,325	1,334,033
Net Trade Balance	5,777	(155,424)	(338,291)	(271,114)	(146,089)

^aFigures in brackets indicate a deficit.

^bn.a. = not available.

SELECTED AGRICULTURAL PRODUCTION INPUT TERMS

Farm Machinery (Exports and Imports):

Soil Preparation, Seeding and Fertilizing Machinery:

Disc plows and harrow plows, one-way discs, tiller combines, and parts
Plows and parts, n.e.s.²
Drag and spring tooth harrows and parts
Disc harrows and parts
Rotary tillers, agricultural, and parts
Planters, transplanters and parts
Grain drills and combination grain and fertilizer drills and parts
Manure spreaders and parts
Soil preparation, seeding and fertilizing machinery, and parts n.e.s.

Cultivation and Crop Protection Machinery:

Cultivators, weeders and parts
Sprayers and other crop protection machinery, equipment, and parts n.e.s.

Haying, harvesting, threshing and related machinery:

Mowers and parts
Dump rakes, side rakes, tedders, and parts
Hay and straw balers, and parts
Combination mower-conditioners
Haying machinery and parts n.e.s.
Swathers or windrowers and parts
Grain and corn binders, and ensilage and forage harvesters, and parts
Potato harvesting machinery and parts
Combine reaper-threshers
Parts, attachments, and accessories for combine reaper-threshers
Tobacco harvesting machinery and parts
Harvesting, threshing, and related machinery, and parts n.e.s.

Machines for preparing crops for market or use:

Feed cutters, grinders, crushers or rollers, and parts
Machines for preparing fruit, vegetables, flowers or nursery stock for market or use, and parts
Machines and equipment for preparing crops for market or use, and parts n.e.s.

Dairy Farm, Poultry Farm, and Apiary Machinery and Equipment:

Milling machines and parts
Cream separators, and parts

²n.e.s. = not elsewhere specified.

Farm milk coolers and parts
Farm dairy machinery, equipment and parts n.e.s.
Incubators, brooders and parts
Poultry farm and apiary machinery, equipment and parts n.e.s.

Other Agricultural Machinery and Equipment:

Grain loaders and elevators and parts
Farm loaders, attachments for tractors
Cattle stalls, pens, stanchions, and parts
Feeders, feed cookers and tank heaters, and parts
Agricultural edge tools and blades
Farm irrigation systems and parts
Agricultural machinery, equipment, and parts, n.e.s.

Tractors:

Wheel tractors, new and used, and parts
Tractor engines and engine parts
Tractor cabs
Tractors n.e.s., parts and accessories for tractors n.e.s.

Fertilizers (Exports and Imports):

Ammonia, Anhydrous
Urea
Ammonium Nitrate
Sodium Nitrate, Calcium Cyanamide, and Nitrogen solutions
Ammonium Sulphate
Nitrogenous fertilizers, mineral or chemical, n.e.s.
Superphosphate, 22 percent or less P_2O_5
Superphosphate, more than 22 percent P_2O_5
Phosphatic fertilizers n.e.s.
Potassium Chloride
Potassium Sulphate
Potassic fertilizers n.e.s.
Prepared fertilizer mixtures
Fertilizers and fertilizer materials n.e.s.
Phosphate rock

Agricultural Chemicals (Imports):

Aldrin, technical
DDT, technical
Derivatives of Hydrocarbons n.e.s.
2, 4 - Dichlorophenoxyacetic acid, (2, 4-D)
Methyl Chlorophenoxyacetic acid (MCP or MCPA)
Dithiocarbamates
DDT dusts, solutions and powders
Synthetic organics n.e.s., botanicals and arsenicals, formulated
Dithiocarbamates, formulated
Mercurial fungicides (except seed treatments)
Fungicides n.e.s. (except seed treatments)
Organic mercurial seed treatments

Other agricultural dusts and sprays (except herbicides)
Herbicides based on Chlorate, Borate or 2, 4, 5-T
2, 4-D Ester and Amine dusts and formulations
Herbicides n.e.s.
Insecticides and rodenticides n.e.s.

Agricultural Chemicals (Exports):

Agricultural chemicals, formulated, insecticides and rodenticides

Tires

Tractor and implement tires, pneumatic, n.e.s.

Twine (Imports):

Baler twine
Binder twine
Cotton cordage and twine
Paper cordage and twine
Cordage and twine of man-made fibre
Cordage and twine n.e.s.

Twine (Exports):

Baler twine
Binder twine
Cordage, twine, and rope n.e.s.

APPENDIX B

ANNUAL AVERAGE EXCHANGE RATES OF CURRENCIES OF MAJOR TRADING COUNTRIES IN MANUFACTURED AGRICULTURAL PRODUCTION INPUTS IN TERMS OF CANADIAN DOLLARS, 1972 TO 1977

Country	Currency Unit	1972	1973	1974	1975	1976	1977
Australia	Dollar	1.18210	1.42320	1.40870	1.33300	1.20740	1.18030
Belgium	Franc	0.02251	0.02581	0.02515	0.02773	0.02556	0.02971
Chile	Peso	0.05675	0.00276	0.00147	-a	0.74120	0.51580
Denmark	Krone	0.14270	0.16640	0.16080	0.17740	0.16320	0.17710
France	Franc	0.19650	0.22570	0.20350	0.23770	0.20670	0.21650
Germany, West	D. Mark	0.31080	0.37820	0.37850	0.41440	0.39200	0.45860
Italy	Lira	0.00169	0.00172	0.00150	0.00156	0.00119	0.00121
Japan	Yen	0.00327	0.00369	0.00335	0.00343	0.00332	0.00398
Morocco	Dirham	0.21170	0.23560	0.23310	0.24250	0.23510	0.25350
Netherlands	Florin	0.30870	0.36030	0.36440	0.40310	0.37340	0.43360
New Zealand	Dollar	1.18650	1.36380	1.37200	1.23700	0.98180	1.03280
Peru	Sol	0.02506	0.02535	0.02259	0.02328	0.01843	0.01321
Portugal	Escudo	0.03635	0.03893	0.03880	0.04004	0.03279	0.02790
South Africa	Rand	1.28600	1.44360	1.43980	1.38990	1.13410	1.22310
Sweden	Krona	0.20830	0.23010	0.22060	0.24560	0.24490	0.23780
Switzerland	Franc	0.25940	0.31750	0.32950	0.39420	0.44200	0.44440
United Kingdom	Pound	2.47970	2.45326	2.28840	2.25944	1.86070	1.85710
United States	Dollar	0.99050	1.00006	0.97796	1.01729	1.07070	1.06350

^aChile changed from the escudo to the peso on September 30, 1975.

Source: Bank of Canada, nominal quotations.

CANADA'S TRADE IN SELECTED MANUFACTURED AGRICULTURAL PRODUCTION INPUTS, 1945-75

FEEDBACK FROM READERS

Because communication is a two-way process we invite you to express your opinions, suggestions and questions on this publication. Thank you for your interest and assistance.

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not
useful 0 25 50 75 100 very
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2. Why do you say this?

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CONVERSION FACTORS FOR METRIC SYSTEM

Imperial units	Approximate conversion factor	Results in:
LINEAR		
inch	x 25	millimetre (mm)
foot	x 30	centimetre (cm)
yard	x 0.9	metre (m)
mile	x 1.6	kilometre (km)
AREA		
square inch	x 6.5	square centimetre (cm ²)
square foot	x 0.09	square metre (m ²)
acre	x 0.40	hectare (ha)
VOLUME		
cubic inch	x 16	cubic centimetre (cm ³)
cubic foot	x 28	cubic decimetre (dm ³)
cubic yard	x 0.8	cubic metre (m ³)
fluid ounce	x 28	millilitre (ml)
pint	x 0.57	litre (ℓ)
quart	x 1.1	litre (ℓ)
gallon	x 4.5	litre (ℓ)
WEIGHT		
ounce	x 28	gram (g)
pound	x 0.45	kilogram (kg)
short ton (2000 lb)	x 0.9	tonne (t)
TEMPERATURE		
degrees Fahrenheit	(° F-32) x 0.56 or (° F-32) x 5/9	degrees Celsius (° C)
PRESSURE		
pounds per square inch	x 6.9	kilopascal (kPa)
POWER		
horsepower	x 746 x 0.75	watt (W) kilowatt (kW)
SPEED		
feet per second	x 0.30	metres per second (m/s)
miles per hour	x 1.6	kilometres per hour (km/h)
AGRICULTURE		
gallons per acre	x 11.23	litres per hectare (ℓ/ha)
quarts per acre	x 2.8	litres per hectare (ℓ/ha)
pints per acre	x 1.4	litres per hectare (ℓ/ha)
fluid ounces per acre	x 70	millilitres per hectare (ml/ha)
tons per acre	x 2.24	tonnes per hectare (t/ha)
pounds per acre	x 1.12	kilograms per hectare (kg/ha)
ounces per acre	x 70	grams per hectare (g/ha)
plants per acre	x 2.47	plants per hectare (plants/ha)

